

**Abstract of the Invention**

A portable, inexpensive, and easy to operate vehicle oxygen sensor analyzer shows, in real time, on an ultra-bright LED display, the dynamic operation of the oxygen sensor, simulates sensor signals into the computer, while monitoring the oxygen sensor to confirm correct computer operation, and performs a quick, simple  
5 and accurate test on the oxygen sensor to prove that it will pass emissions tests for oxygen sensors of the type typically required under emissions control regulations.